



PATENT
Docket No.: 2809/1371

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicants : Beck et al.

Serial No. : 09/704,306

Cnfrm. No. : 4919

Filed : November 2, 2000

For : NOVEL 4-PHENYL SUBSTITUTED
TETRAHYDROISOQUINOLINES AND USE
THEREOF

)
) Examiner:
) Brenda L. Coleman

)
) Art Unit:
) 1624

INFORMATION DISCLOSURE STATEMENT
UNDER 37 CFR §§ 1.97-1.98

Mail Stop: RCE
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Dear Sir:

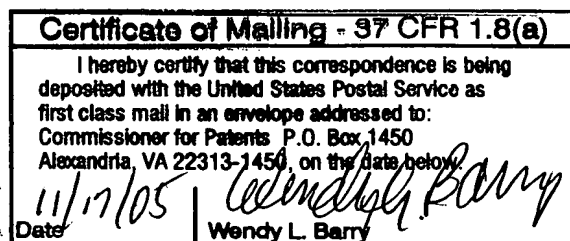
Pursuant to 37 CFR §§ 1.97-1.98, applicants hereby bring to the attention of the United States Patent and Trademark Office, the references are listed on the attached PTO-1449 form. Pursuant to a waiver by the USPTO, copies of the U.S. Patents are not enclosed.

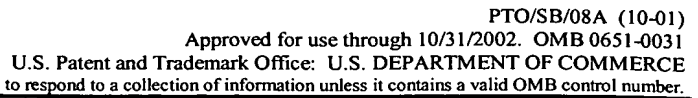
Respectfully submitted,

Date: November 17, 2005

Michael L. Goldman
Registration No. 30,727

NIXON PEABODY LLP
Clinton Square, P.O. Box 31051
Rochester, New York 14603-1051
Telephone: (585) 263-1304
Facsimile: (585) 263-1600





Substitute for form 1449A/PTO

(use as many sheets as necessary)

Complete if Known

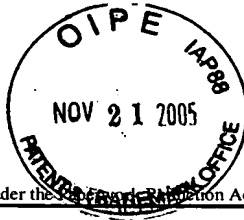
| | |
|-------------------------------|-------------------|
| Application Number | 09/704,306 |
| Filing Date | November 2, 2000 |
| First Named Inventor | James P. Beck |
| Art Unit | 1624 |
| Examiner Name | Brenda L. Coleman |
| Attorney Docket Number | 2809/1371 |

| | | | |
|-------|---|----|---|
| Sheet | 1 | of | 3 |
|-------|---|----|---|

[illegible][illegible]

| | | | |
|-----------------------|--|--------------------|--|
| Examiner Signature | | Date Considered | |
|-----------------------|--|--------------------|--|

¹ Applicant's unique citation designation number (optional). ² See Kinds Codes of USPTO Patent Documents at 222.uspto.gov or MPEP 901.04. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.



PTO/SB/08B (10-01)

Approved for use through 10/31/2002. OMB 0651-0031

U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

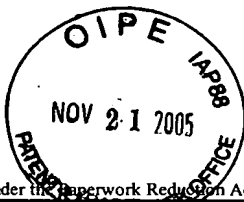
Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

| | | | | |
|---|-----------------------|--|--------------------------|-------------------|
| Substitute for form 1449B/PTO | | | Complete if Known | |
| INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary) | | | Application Number | 09/704,306 |
| | | | Filing Date | November 2, 2000 |
| | | | First Named Inventor | James P. Beck |
| | | | Group Art Unit | 1624 |
| | | | Examiner Name | Brenda L. Coleman |
| Sheet | 2 | 3 | Attorney Docket Number | 2809/1371 |
| OTHER PRIOR ART – NON PATENT LITERATURE DOCUMENTS | | | | |
| Examiner Initials* | Cite No. ¹ | Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published. | | T ² |
| | 2 | BANERJI et al., "Studies on Single-Electron Transfer Reagents. Part IV ^{1a-c} Reaction of Nitrogen Heterocycles with Sodium Naphthalenide," <i>Tetrahedron</i> 50(30):9079-9096 (1994) | | |
| | 3 | BOBOWSKI & GOTTLIEB, "4-Substituted 1,2,3,4-tetrahydro-3,3-dimethylisoquinolines. II.," <i>J. Heterocyclic Chem.</i> 19(1):21-27 (1982) | | |
| | 4 | BROWN & DYKE, "1,2-Dihydroisoquinolines. II. Berbine Synthesis," <i>Tetrahedron</i> 22(8):2429-35 (1966) | | |
| | 5 | BROWN & DYKE, "1,2-Dihydroisoquinolines. III. Dimerization," <i>Tetrahedron</i> 22(8):2437-2443 (1966) | | |
| | 6 | CHANDRASEKHAR et al., "Highly Efficient Synthesis of 3-alkyl/aryl-4-aryl-1,2,3,4-tetrahydroisoquinolines from <i>N,N</i> -dibenzylaminols," <i>Tetrahedron Lett.</i> 43(10):1885-1888 (2002) | | |
| | 7 | GEORGIADIS et al., "Synthesis and Complexation Properties of a Water-Soluble Optically Active Cyclophane Incorporating a 4-Naphthyl-1,2,3,4-tetrahydroisoquinoline Unit as a Chiral Spacer," <i>J. Org. Chem.</i> 56(10):3362-3369 (1991) | | |
| | 8 | KNABE & HERBORT, "Dehydrogenation of Tertiary Amines with Aercury (II) Acetate in the Presence of EDTA. XIII. Oxidative Dimerization of 6,7-dimethoxy-2-methyl-1,1-diethyl-1,2,3,4-tetrahydroisoquinoline," <i>Archiv. der Pharmazie. und Berichte der Deutschen Pharmazeutischen Gesellschaft</i> 300(9):774-783 (1967) | | |
| | 9 | KNABE & RENZ, "Synthesis of 3,4'-Biisoquinolines," <i>Archiv. der Pharmazie.</i> (Weinheim, Germany) 307(8):612-622 (1974) | | |
| | 10 | SEEBACH et al., "Alkylation of Amino Acids without Loss of the Optical Activity: Preparation of α -Substituted Proline Derivatives. A Case of Self-Reproduction of Chirality," <i>J. American Chem. Soc.</i> 105(16):5390-5398 (1983) | | |
| | 11 | SUGIURA & HAMADA, "Studies on Nitrogen-Containing Heterocyclic Compounds. XXXV. Syntheses and Reduction of 4-Amino-2-cyano-1,3-dimethoxy-1,2,3,4-tetrahydroisoquinolines," <i>Yakugaku Zasshi</i> 99(6):556-563 (1979) | | |
| | 12 | SUGIURA et al., "Synthesis and Stereochemistry of 3,7-Diazatricyclo[4.2.2.2 ^{2,5}]dodeca-9,11-dienes Derived By [4+4] Cyclodimerization of 2,3-Dihydroisoquinoline Derivatives," <i>Chem. Pharm. Bull.</i> 46(12):1862-1865 (1998) | | |
| | 13 | UNO et al., "A Novel Method for the Synthesis of 4-Isoquinolinols," <i>J. Heterocyclic Chem.</i> 28(2):341-346 (1991) | | |
| Examiner Signature | | | | Date Considered |

* EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Applicant's unique citation designation number (optional). ² Applicant is to place a check mark here if English language Translation is attached.

R893679.1



PTO/SB/08B (10-01)

Approved for use through 10/31/2002. OMB 0651-0031

U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

| | | | | | |
|---|-----------------------|---|---|--------------------------|-------------------|
| Substitute for form 1449B/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(use as many sheets as necessary)</i> | | | | Complete if Known | |
| | | | | Application Number | 09/704,306 |
| | | | | Filing Date | November 2, 2000 |
| | | | | First Named Inventor | James P. Beck |
| | | | | Group Art Unit | 1624 |
| | | | | Examiner Name | Brenda L. Coleman |
| Sheet | 3 | of | 3 | Attorney Docket Number | 2809/1371 |
| OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS | | | | | |
| Examiner Initials* | Cite No. ¹ | Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published. | | | T ² |
| | 14 | CAS Number 53885-32-8 | | | |
| | 15 | CAS Number 53885-23-7 | | | |
| | 16 | BEILSTEIN NO. 455853 (CAS 71730-66-0) | | | |
| | 17 | BEILSTEIN NO. 4048047 (CAS 17074-38-3, 17074-39-4) | | | |
| | 18 | BEILSTEIN NO. 4102323 (CAS 53885-34-0) | | | |
| | 19 | BEILSTEIN NO. 4341479 (CAS 134021-24-2) | | | |
| | 20 | BEILSTEIN NO. 4494373 (CAS 82416-61-3) | | | |
| | 21 | BEILSTEIN NO. 4774688 (CAS 133160-36-8) | | | |
| | 22 | BEILSTEIN NO. 4787749 (CAS 133043-12-6, 133160-34-6, 133160-35-7) | | | |
| | 23 | BEILSTEIN NO. 4787750 (CAS 133043-12-6, 133160-34-6, 133160-35-7) | | | |
| | 24 | BEILSTEIN NO. 4787836 (CAS 133043-20-6, 133043-31-9) | | | |
| | 25 | BEILSTEIN NO. 4787837 (CAS 133043-20-6, 133043-31-9) | | | |
| | 26 | BEILSTEIN NO. 4788234 (CAS 133043-19-3, 133043-30-8) | | | |
| | 27 | BEILSTEIN NO. 4788235 (CAS 133043-19-3, 133043-30-8) | | | |
| | 28 | BEILSTEIN NO. 4789758 (CAS 133043-21-7, 133043-22-8) | | | |
| Examiner Signature | | | | Date Considered | |

* EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Applicant's unique citation designation number (optional). ² Applicant is to place a check mark here if English language Translation is attached.